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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,807	07/08/2005	Francois Pancrazi	Serie 6058	6130
40582	7590	01/27/2009	EXAMINER	
AIR LIQUIDE Intellectual Property 2700 POST OAK BOULEVARD, SUITE 1800 HOUSTON, TX 77056			HAMO, PATRICK	
ART UNIT	PAPER NUMBER		3746	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/541,807	Applicant(s) PANCRAZI ET AL.
	Examiner PATRICK HAMO	Art Unit 3746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 October 2008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 31-47 is/are pending in the application.

4a) Of the above claim(s) 31-42 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 43-47 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 08 July 2005 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/06/08)
Paper No(s)/Mail Date 7/8/05

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group IV, claims 43-47 in the reply filed on October 31, 2008 is acknowledged. Claims 31-42 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim.

Drawings

The drawings are objected to because of the following informalities: All drawings must be made by a process which will give them satisfactory reproduction characteristics. See 37 CFR 1.84(l). Every line, number, and letter must be durable, clean, black (except for color drawings), sufficiently dense and dark, and uniformly thick and well-defined. The weight of all lines and letters must be heavy enough to permit adequate reproduction. This requirement applies to all lines however fine, to shading, and to lines representing cut surfaces in sectional views. Lines and strokes of different thicknesses may be used in the same drawing where different thicknesses have a different meaning. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the

replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 43-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 43 recites the limitation "each said compressor" in line 7 of the claim. There is insufficient antecedent basis for this limitation in the claim. In line 4 of the claim, "at least one compressor" is recited. The limitation "each said compressor" implies at least *two* compressors. Because only at least one compressor is recited, there is insufficient antecedent basis for the limitation "each said compressor." Even if there was antecedent basis for the limitation, in line 6 of the claim, "said compressor" is

recited, implying only one or at least one compressor. This is consistent with the positively recited limitation “at least one compressor,” but even if applicant disagrees, either the limitation in line 6 or line 7 of the claim lacks antecedent basis.

Claims 44-46 are dependent on claim 43 and are likewise rejected.

Claim 45 is indefinite because it is unclear where the method steps defined the claim correspond to those in claim 43. The method steps do not seem to follow any chronological order and seem to require a trigger to make the limitations recognizable as method steps. Otherwise all compressors are switched off eventually (b) or switched on (a). Examiner requests clarification of the claim. Furthermore, the limitation “said switched off compressor” lacks antecedent basis both out of hand and because it implies the existence of a second compressor that had not been previously established with definiteness.

Independent claim 47 includes the same limitations as those in question in claim 43 and is likewise rejected for insufficient antecedent basis.

For purposes of examination, the limitation “at least one compressor” is understood such that only one compressor is required by the limitation, but more are allowed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 43, 46 and 47 as understood are rejected under 35 U.S.C. 102(b) as being anticipated by Haseley et al., US 5,054,995.

In regard to claims 43 and 46:

Haseley discloses the invention substantially as claimed, including a plant (entire system of fig. 1) including:

an air compressor 10 with delivery side 28 connected to a piping system (see fig. 1);

a connecting line 76 connecting the compressor to a power source via controller 63 and thermistors 78;

a switching means 40 that triggers a change in status for the compressor by opening and closing;

a control means 63 for controlling switching means 40;

the control means comprising:

actuating means 38 and 46 that actuates valve 40;

selection means 92;

selecting at least one compressor to be switched on (95, fig. 2);

selection protocol based on pressure from sensor 39;

maintaining pressure between two set points (109, fig. 2);

responding to a pressure drop below lower threshold by opening inlet valve 12 to start compression;

responding to a pressure rise above upper threshold by unloading the compressor, such that it is idle (col. 3, lines 7-10).

In regard to claim 47:

Haseley also discloses maintaining the pressure between the two set points set by the user via interface 92 and that the data is used by a computer 118 which is programmed to use the sensor information to control the controller (col. 6, line 18 - col. 7, line 21).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 44 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haseley in view of Shen, US 6,595,757.

Haseley discloses all of the limitations substantially as claimed and as discussed above except for the following taught by Shen: switching off an idling compressor wherein said idling time has been longer than a minimum idling time (the minimum

being 0 seconds, see col. 4, lines 15-21). It would have been obvious to one of ordinary skill in the art to incorporate the delayed shut off of Shen into the compressor system of Haseley to prevent the motor and pump from wearing with use (col. 1, lines 65-67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PATRICK HAMO whose telephone number is (571)272-3492. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on 571-272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/
Supervisory Patent Examiner, Art
Unit 3746

/Patrick Hamo/

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